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Morbidity and Mortality

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WEEKLY REPORT

Week Ending July 27, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE — PUBLIC HEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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CONTENTS

International Notes
Influenza A2 – Hong Kong 277
Epidemiologic Notes and Reports
Follow-up Arbovirus Disease – United States 278
Hand, Foot, and Mouth Disease – Baltimore, Maryland ... 278
Hand, Foot, and Mouth Disease – Upstate New York 279
Animal Anthrax and Presumptive Human Anthrax – California 279
Case of Poliomyelitis – Kansas City, Missouri 279

INTERNATIONAL NOTES

INFLUENZA A2 – Hong Kong

An epidemic of influenza, affecting an estimated 300,000 persons in Hong Kong, has been reported. The first cases became evident on July 13, 1968, with a rapid increase in incidence reaching an apparent peak on July 25, 26. The disease has been clinically mild with symptoms lasting from 3 to 4 days. Deaths have been few in number and have occurred primarily in the very young and the aged.

Strains of virus have been isolated on primary cynomologous monkey cell culture. All have been identified as type A2 influenza by hemagglutination inhibition tests. Serologic studies of patients are in progress.

American residents have been affected to some extent. Approximately 30 percent of the staff at the American Consulate have experienced influenza-like illnesses during the current epidemic.

No reliable reports of influenza in American tourists have been obtainable. There has been no disruption of tourist traffic.

(Reported by Medical Officer, USPHS, Foreign Quarantine Program, Hong Kong; Dr. W. K. Chang, National Influenza Center, University of Hong Kong; and the International Influenza Center, NCDC.)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	30th WEEK ENDED		MEDIAN	CUMULATIVE, FIRST 30 WEEKS		MEDIAN
	July 27, 1968	July 29, 1967	1963 - 1967	1968	1967	1963 - 1967
Aseptic meningitis	118	68	60	1,258	1,107	952
Brucellosis	3	—	5	116	153	153
Diphtheria	1	2	5	95	60	98
Encephalitis, primary:						
Arthropod-borne & unspecified	17	34	---	524	782	---
Encephalitis, post-infectious	7	23	---	314	534	---
Hepatitis, serum	98	50	582	2,401	1,207	23,707
Hepatitis, infectious	871	647		25,066	22,234	
Malaria	28	51	6	1,223	1,149	59
Measles (rubeola)	232	286	1,318	18,684	56,338	235,343
Meningococcal infections, total	49	26	35	1,817	1,531	1,752
Civilian	46	26	---	1,644	1,423	---
Military	3	—	---	173	108	---
Mumps	945	---	---	120,280	---	---
Poliomyelitis, total	—	4	4	31	19	45
Paralytic	—	3	4	31	16	41
Rubella (German measles)	397	327	---	41,758	38,646	---
Streptococcal sore throat & scarlet fever	4,278	4,778	4,071	274,342	296,884	267,496
Tetanus	3	9	6	81	121	138
Tularemia	3	4	6	121	96	145
Typhoid fever	8	5	9	174	225	237
Typhus, tick-borne (Rky. Mt. spotted fever)	14	11	16	132	153	134
Rabies in animals	52	98	84	2,135	2,656	2,656

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	3	Rabies in man:	—
Botulism: Calif.-1	4	Rubella, Congenital Syndrome:	4
Leptospirosis: Tex.-1	16	Trichinosis:	40
Plague:	1	Typhus, murine:	14
Psittacosis:	28		

EPIDEMIOLOGIC NOTES AND REPORTS
FOLLOW-UP ARBOVIRUS DISEASE – United States

Since the isolation of California Group virus from mosquitoes in Wisconsin and the isolation of western encephalitis virus from mosquitoes in west Texas (MMWR, Vol. 17, No. 29), eastern encephalitis virus has been isolated from ponies in Delaware and New Jersey and from pheasants in Maryland. Probable western encephalitis in horses has been reported from Kansas. To date, no increase in human cases of primary encephalitis has been reported to NCDC.

In a marshy rural area, east of Salisbury, Maryland, in Wicomico County on the Delmarva peninsula, six ponies recently developed symptoms of encephalitis and five of the six have died. In this same area, beginning on July 16, there was a small die-off of pheasants from a population of 11,500 pheasants and 2,500 partridges on a single farm. On Friday, July 26, 200 pheasants and 10 partridges died, and the birds are continuing to die at about the same rate. Eastern encephalitis virus has been isolated from one of the pheasants, and the area has been sprayed with malathion. To date, other large pheasant farms in the area have not been affected.

One July 20 in Millsboro, a community in southern Delaware about 50 miles from Salisbury, Maryland, one pony died of encephalitis. The New Jersey Division of Laboratories has isolated eastern encephalitis virus from the brain of this pony. The Millsboro area has since been sprayed with insecticides. Eastern encephalitis virus has also been isolated from the brain of a 4-year-old unvaccinated pony in Laureldale, Atlantic County, New Jersey. The animal was noticed to be ill and died on July 22.

In Kansas, 21 scattered cases of encephalitis in horses have been reported during the past 3 weeks. High titers to western encephalitis virus have developed in sentinel flocks in Thomas County in the northwestern part of the state, and four of the cases of encephalitis in horses occurred in adjacent Sheridan County. Rainfall in July was extremely heavy throughout the state, and *Culex tarsalis* mosquito populations were reported to be high not only in Thomas County but also in Republic and Riley Counties in northcentral Kansas.

(Reported by Dr. John Janney, State Epidemiologist, Maryland State Department of Health; Dr. Thomas Ladson, Director, Maryland Livestock Sanitary Service; Dr. George Langford, State Entomologist, and Dr. Stanley Joseph, Associate Entomologist, Maryland State Board of Agriculture; Dr. Floyd Hudson, State Health Officer, Delaware State Board of Health; Dr. Ernest Symington, State Veterinarian, State Board of Agriculture; Dr. Oscar Sussman, Chief, Veterinary Public Health Program, Dr. Henry C. Black, and Mr. Bernard Taylor, Division of Laboratories, and Dr. Ronald Altman, State Epidemiologist, New Jersey State Department of Health; and Dr. Donald Wilcox, Director, Division of Disease Prevention and Control, Kansas State Department of Health.)

HAND, FOOT, AND MOUTH DISEASE – Baltimore, Maryland

Since the last week in June 1968, approximately 60 cases of a disease characterized by vesicular lesions on the soles of the feet, palms, buttocks, and mouth have occurred in residents of the city and county of Baltimore. The patients also had a low grade fever not above 100°F. The number of cases reported each week has progressively increased through July 20 (Figure 1). Of the affected persons, 50 percent were children between 1 and 2 years of age and only three were persons over 10 years of age although the range in age was 10 months to 33 years. A tentative diagnosis for this disease is hand, foot, and mouth disease. An additional 100 cases of ulcerative stomatitis without other lesions have also been reported.

Throat, stool, and vesicular fluids have been cultured, and a Coxsackievirus Type A-16 has been isolated.

Cases of a similar disease have also recently been reported from two other counties in Maryland, Washington, D.C., Watertown, Binghamton, (see below) and Rochester, New York, and Atlanta, Georgia.

Figure 1
HAND, FOOT, AND MOUTH DISEASE
(42 CASES) BY DATE OF ONSET
BALTIMORE, MARYLAND – JUNE - AUGUST 1968

(Reported by John H. Janney, M.D., Chief, Communicable Disease Division, and J.M. Joseph, M.D., Assistant Director, Bureau of Laboratories, Maryland State Department of Health; John R. Pate, M.D., Chief, Communicable Disease Control, District of Columbia Department of Public Health; Julia L. Frietag, M.D., Director, Bureau of Epi-

demiology, New York State Health Department; John E. McCroan, Ph.D., State Epidemiologist, Georgia Department of Public Health; and a team from NCDC.)

Editorial Note:

These illnesses present the characteristic features of hand, foot, and mouth disease known to be caused by Coxsackievirus Type A-16.[1] Other Type A Coxsackieviruses may be associated with this syndrome.

Reference:

[1]Froeschle, James et al: Hand, Foot and Mouth Disease (Coxsackie Virus A-16) in Atlanta. Amer J Dis Child *14*:278, 1967.

HAND, FOOT, AND MOUTH DISEASE – Upstate New York

Clinical cases of a disease resembling classical hand, foot, and mouth disease have been occurring in Broome County, New York, for about a month. The illness, occurring chiefly among children 2 to 7 years of age, is characterized by vesicular eruption on the hands, feet, and mouth. Except for poor food consumption because of painful, ruptured vesicles in the mouth, the illness is mild and of 5 to 7 days duration. A preliminary investigation suggested more than 200 cases distributed throughout the county.

(Reported by Cameron F. McRae, M.D., Health Commissioner, Broome County; Israel Rosefsky, M.D., James F. Johnson, M.D., and John Ford, M.D., Binghamton, New York; James O. Culver, M.D., Public Health Physician, and Julia L. Frietag, M.D., Director, Bureau of Epidemiology, New York State Health Department, and an EIS Officer.)

ANIMAL ANTHRAX AND PRESUMPTIVE HUMAN ANTHRAX – California

Between June 19 and July 12, an outbreak of animal anthrax was documented in Inyo County, California. Dead animals were found on 34 different farms and included 148 cattle, 13 tule elk, two horses, one burro, and one mule. Cultures obtained at autopsy from dead animals on 18 farms yielded *Bacillus anthracis*. Animal carcasses were disposed of either by burning or burying.

A 63-year-old male who participated in the disposal operations reported that he had been bitten on his leg by a horsefly "that had flown from a dead animal." Several days later on June 30, the man developed fever and malaise and an inflamed pustular ulcer at the same site as the bite. Inguinal adenopathy subsequently developed, and a black eschar formed over the site of the initial lesion. The wound was debrided and gram-positive bacilli were detected in the debrided material. Culture results are pending. The patient was begun on penicillin therapy and has made an uneventful recovery.

Previous outbreaks of animal anthrax occurred in Inyo County as recently as 1963. During the first 2 weeks in July, following this recent outbreak, 20,000 cattle and horses were immunized with live attenuated anthrax vaccine.

(Reported by Victor Hough, M.D., Health Officer, Inyo County; Ben Dean, D.V.M., Chief, Veterinary Section, and Philip K. Condit, M.D., M.P.H., Chief, Bureau of Communicable Diseases, California State Department of Public Health; and H. G. Wixom, D.V.M., California Department of Agriculture.)

Editorial Note:

Transmission of anthrax by infected horseflies has been previously postulated[1]; however, in this case, direct contact with infected material cannot be excluded.

Reference:

[1]Sen, S.K., and Minett, F.C.: Experiments on the Transmission of Anthrax through Flies. Indian J Vet Sci Anim Husb *14*:149, 1944.

CASE OF POLIOMYELITIS – Konsos City, Missouri

On July 5, 1968, a 5-year-old boy from a suburb in Kansas City, Missouri, complained to his mother of headache, stiff neck, abdominal cramps, and pains in his right leg. He also had a low grade fever and walked with a slight limp. By July 7, he was unable to walk, and on July 8, he was admitted to a hospital. On admission he had flaccid paralysis of the right leg. He had a white cell count of 8,200 with a normal differential, and his spinal fluid had a total cell count of 98 cells per mm^3 (all cells were lymphocytes), protein of 49 mg percent, and sugar of 56 mg percent. On July 12, poliovirus type 2 was recovered from the stool and throat washing of the patient; this virus was subsequently recovered from the stool of the patient's sister who has remained well to the present time. The boy and his sister had no history of poliomyelitis immunization.

Epidemiologic investigation revealed that the boy and his family had been in Clinton, Missouri, on June 15 and 16. At Clinton, he attended a centennial celebration and had close association with a woman and her two children who had recently arrived from Costa Mesa, California. Between the boy's return from Clinton and onset of illness, he had close contact with three neighborhood children and he attended a carnival in Kansas City and visited

(Continued on page 284)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 27, 1968 AND JULY 29, 1967 (30th WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA
					Primary including unsp. cases		Post-Infectious	Serum	Infectious		
	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES...	118	68	3	1	17	34	7	98	871	647	28
NEW ENGLAND.....	1	-	-	-	-	-	-	-	37	24	-
Maine.....	-	-	-	-	-	-	-	-	-	3	-
New Hampshire.....	-	-	-	-	-	-	-	-	1	1	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	1	-	-	-	-	-	-	-	25	13	-
Rhode Island.....	-	-	-	-	-	-	-	-	3	4	-
Connecticut.....	-	-	-	-	-	-	-	-	8	3	-
MIDDLE ATLANTIC.....	15	8	-	-	3	1	1	47	123	127	5
New York City.....	4	4	-	-	-	-	-	31	45	55	-
New York, up-State.	1	2	-	-	-	1	-	6	17	26	-
New Jersey.....	9	-	-	-	1	-	-	7	25	19	1
Pennsylvania.....	1	2	-	-	2	-	1	3	36	27	4
EAST NORTH CENTRAL...	13	9	-	-	3	15	1	2	108	84	2
Ohio.....	6	1	-	-	1	13	-	-	26	19	1
Indiana.....	-	-	-	-	-	2	-	-	7	5	-
Illinois.....	2	6	-	-	2	-	1	1	22	39	1
Michigan.....	5	1	-	-	-	-	-	1	37	16	-
Wisconsin.....	-	1	-	-	-	-	-	-	16	5	-
WEST NORTH CENTRAL...	5	9	2	-	-	2	1	3	70	43	2
Minnesota.....	5	-	-	-	-	-	1	2	9	9	1
Iowa...*	-	-	2	-	-	2	-	-	7	7	-
Missouri...*	-	-	-	-	-	-	-	-	36	24	-
North Dakota.....	-	-	-	-	-	-	-	-	-	1	1
South Dakota.....	-	9	-	-	-	-	-	-	7	-	-
Nebraska.....	-	-	-	-	-	-	-	-	1	1	-
Kansas.....	-	-	-	-	-	-	-	1	10	1	-
SOUTH ATLANTIC.....	32	6	1	-	-	2	-	-	94	64	1
Delaware.....	2	-	-	-	-	-	-	-	9	4	-
Maryland.....	2	2	-	-	-	1	-	-	16	10	-
Dist. of Columbia..	-	1	-	-	-	-	-	-	3	-	-
Virginia.....	19	-	-	-	-	1	-	-	7	6	-
West Virginia.....	3	-	-	-	-	-	-	-	11	5	-
North Carolina.....	1	1	-	-	-	-	-	-	2	14	4
South Carolina.....	-	-	-	-	-	-	-	-	1	3	-
Georgia.....	-	-	1	-	-	-	-	-	17	13	-
Florida.....	5	2	-	-	-	-	-	-	28	9	1
EAST SOUTH CENTRAL...	3	13	-	-	-	4	-	-	67	40	2
Kentucky.....	1	1	-	-	-	-	-	-	27	8	1
Tennessee.....	2	6	-	-	-	4	-	-	25	14	-
Alabama.....	-	-	-	-	-	-	-	-	3	8	1
Mississippi.....	-	6	-	-	-	-	-	-	12	10	-
WEST SOUTH CENTRAL...	22	4	-	-	4	4	-	2	64	77	1
Arkansas.....	-	-	-	-	-	-	-	-	1	4	-
Louisiana.....	13	1	-	-	3	3	-	2	17	8	1
Oklahoma...*	1	-	-	-	1	1	-	-	3	9	-
Texas...*	8	3	-	-	-	-	-	-	43	56	-
MOUNTAIN.....	2	1	-	-	-	3	-	-	54	19	11
Montana.....	-	-	-	-	-	1	-	-	6	2	-
Idaho.....	1	-	-	-	-	-	-	-	4	-	-
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	1	1	-	-	-	2	-	-	31	6	11
New Mexico.....	-	-	-	-	-	-	-	-	2	4	-
Arizona.....	-	-	-	-	-	-	-	-	6	5	-
Utah.....	-	-	-	-	-	-	-	-	5	2	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	25	18	-	1	7	3	4	44	254	169	4
Washington.....	2	-	-	-	-	-	-	-	25	15	-
Oregon.....	-	-	-	-	-	-	-	1	25	17	-
California.....	23	16	-	1	7	3	4	43	203	132	4
Alaska.....	-	-	-	-	-	-	-	-	1	2	-
Hawaii...*	-	2	-	-	-	-	-	-	-	3	-
Puerto Rico...*	---	2	---	---	---	-	---	---	---	19	---

* Delayed reports: Brucellosis: Iowa 7, Okla. 1 case 1967
Diphtheria: Tex. 4
Hepatitis, Infectious: Okla. 7, P.R. 1
Malaria: Mo. 12, Hawaii delete 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 27, 1968 AND JULY 29, 1967 (30th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
		Cumulative			Cumulative			Total	Paralytic		
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES...	232	18,684	56,338	49	1,817	1,531	945	-	-	31	397
NEW ENGLAND.....	15	1,127	806	1	91	60	89	-	-	1	64
Maine...*	-	35	233	-	6	3	11	-	-	-	2
New Hampshire.....	-	141	74	-	7	2	-	-	-	-	-
Vermont.....	-	2	34	-	1	-	3	-	-	-	3
Massachusetts.*....	7	361	316	1	41	30	50	-	-	1	33
Rhode Island.....	4	5	62	-	7	4	9	-	-	-	18
Connecticut.....	4	583	87	-	29	21	16	-	-	-	8
MIDDLE ATLANTIC.....	87	3,705	2,167	7	326	250	126	-	-	-	83
New York City.....	71	1,790	421	-	67	44	120	-	-	-	48
New York, Up-State.	14	1,178	543	1	55	60	NN	-	-	-	31
New Jersey.....	2	598	478	2	118	88	6	-	-	-	3
Pennsylvania..*....	-	139	725	4	86	58	NN	-	-	-	1
EAST NORTH CENTRAL...	37	3,605	5,137	6	218	201	230	-	-	1	63
Ohio.....	4	287	1,125	1	59	69	16	-	-	-	4
Indiana.....	12	632	585	-	28	22	20	-	-	-	10
Illinois.....	3	1,333	904	3	50	47	26	-	-	1	4
Michigan.....	4	242	879	1	62	48	32	-	-	-	14
Wisconsin.....	14	1,111	1,644	1	19	15	136	-	-	-	31
WEST NORTH CENTRAL...	2	368	2,803	5	94	66	35	-	-	1	7
Minnesota.....	-	15	130	-	21	16	1	-	-	-	-
Iowa.....	1	95	743	-	6	12	24	-	-	-	1
Missouri.....	-	81	330	-	31	13	3	-	-	1	5
North Dakota.....	1	125	834	-	3	1	6	-	-	-	-
South Dakota.....	-	4	52	-	4	6	NN	-	-	-	-
Nebraska.....	-	38	621	-	6	12	-	-	-	-	1
Kansas.....	-	10	93	5	23	6	1	-	-	-	-
SOUTH ATLANTIC.....	18	1,422	6,715	14	374	292	77	-	-	1	53
Delaware.....	-	15	43	-	7	6	1	-	-	-	-
Maryland.....	3	88	146	1	27	34	15	-	-	-	1
Dist. of Columbia..	-	6	22	-	14	10	8	-	-	-	-
Virginia.....	3	293	2,121	1	29	35	7	-	-	-	12
West Virginia.....	6	264	1,346	-	9	20	16	-	-	-	9
North Carolina.....	-	281	840	-	73	63	NN	-	-	1	-
South Carolina.....	-	13	506	-	56	28	-	-	-	-	1
Georgia.....	-	4	32	12	73	44	-	-	-	-	-
Florida.....	6	458	1,659	-	86	52	30	-	-	-	30
EAST SOUTH CENTRAL...	4	545	5,074	9	158	123	93	-	-	1	31
Kentucky.....	3	175	1,315	6	64	34	26	-	-	1	9
Tennessee.....	1	56	1,794	2	51	51	62	-	-	-	16
Alabama.....	-	85	1,309	1	23	25	5	-	-	-	6
Mississippi.....	-	229	656	-	20	13	-	-	-	-	-
WEST SOUTH CENTRAL...	40	4,578	16,987	4	293	211	89	-	-	17	32
Arkansas..*.....	-	3	1,404	1	20	28	-	-	-	-	-
Louisiana.....	-	2	150	-	81	82	-	-	-	-	-
Oklahoma.....	1	111	3,320	-	49	16	-	-	-	1	-
Texas.....	39	4,462	12,113	3	143	85	89	-	-	16	32
MOUNTAIN.....	8	956	4,537	-	27	27	68	-	-	-	20
Montana.....	-	66	277	-	3	-	4	-	-	-	-
Idaho.....	-	20	374	-	11	1	12	-	-	-	3
Wyoming.....	-	51	178	-	-	1	1	-	-	-	-
Colorado.....	5	486	1,523	-	8	12	17	-	-	-	6
New Mexico.....	-	88	573	-	-	3	2	-	-	-	1
Arizona.....	3	219	987	-	1	4	28	-	-	-	10
Utah.....	-	21	356	-	1	4	4	-	-	-	-
Nevada.....	-	5	269	-	3	2	-	-	-	-	-
PACIFIC.....	21	2,378	12,112	3	236	301	138	-	-	9	44
Washington.....	-	514	5,400	-	37	25	5	-	-	1	5
Oregon.....	14	471	1,539	-	18	24	13	-	-	-	6
California.....	7	1,356	4,888	3	168	239	76	-	-	8	21
Alaska.....	-	2	130	-	2	9	19	-	-	-	2
Hawaii.....	-	35	155	-	11	4	25	-	-	-	10
Puerto Rico.....	---	354	2,059	---	19	11	---	---	---	-	---

* Delayed reports: Measles: Mass. delete 4, Pa. delete 12
Meningococcal infections: Ark. delete 1
Rubella: Me. 3

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JULY 27, 1968 AND JULY 29, 1967 (30th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES...	4,278	3	81	3	121	8	174	14	132	52	2,135
NEW ENGLAND.....	463	-	2	-	46	-	5	-	-	-	65
Maine.*.....	6	-	-	-	-	-	-	-	-	-	50
New Hampshire.....	21	-	-	-	-	-	1	-	-	-	2
Vermont.....	16	-	-	-	46	-	-	-	-	-	10
Massachusetts.....	56	-	1	-	-	-	2	-	-	-	2
Rhode Island.....	36	-	-	-	-	-	-	-	-	-	-
Connecticut.....	328	-	1	-	-	-	2	-	-	-	1
MIDDLE ATLANTIC.....	112	-	12	-	7	1	14	-	7	3	25
New York City.....	6	-	6	-	-	1	8	-	-	-	-
New York, Up-State.	105	-	4	-	7	-	3	-	1	3	18
New Jersey.....	NN	-	-	-	-	-	-	-	1	-	-
Pennsylvania.....	1	-	2	-	-	-	3	-	5	-	7
EAST NORTH CENTRAL...	313	-	8	-	8	-	25	1	5	4	196
Ohio.....	21	-	-	-	1	-	12	1	3	2	77
Indiana.....	66	-	1	-	1	-	3	-	-	1	66
Illinois.....	54	-	5	-	5	-	9	-	2	-	23
Michigan.....	136	-	2	-	1	-	-	-	-	-	9
Wisconsin.....	36	-	-	-	-	-	1	-	-	1	21
WEST NORTH CENTRAL...	146	-	3	-	9	-	8	1	4	13	528
Minnesota.....	19	-	1	-	-	-	-	-	-	10	152
Iowa.....	28	-	-	-	-	-	1	1	1	1	87
Missouri.....	6	-	2	-	7	-	3	-	1	-	77
North Dakota.....	31	-	-	-	-	-	-	-	-	-	82
South Dakota.....	6	-	-	-	1	-	1	-	1	-	79
Nebraska.....	28	-	-	-	-	-	3	-	1	1	24
Kansas.....	28	-	-	-	1	-	-	-	-	1	27
SOUTH ATLANTIC.....	605	2	16	-	7	-	41	7	72	5	227
Delaware.....	2	-	-	-	-	-	-	-	-	-	-
Maryland.....	96	-	1	-	-	-	8	-	7	-	4
Dist. of Columbia..	37	1	2	-	-	-	2	-	-	-	-
Virginia.....	176	1	3	-	1	-	8	2	26	2	89
West Virginia.....	157	-	1	-	-	-	-	-	-	1	30
North Carolina.....	3	-	2	-	2	-	2	2	23	-	9
South Carolina.....	13	-	1	-	-	-	-	1	3	-	-
Georgia.....	6	-	-	-	2	-	10	2	11	-	34
Florida.....	115	-	6	-	2	-	11	-	2	2	61
EAST SOUTH CENTRAL...	907	-	9	-	6	2	23	4	26	11	485
Kentucky.....	29	-	1	-	1	-	5	-	6	5	236
Tennessee.....	814	-	2	-	4	2	13	2	16	6	227
Alabama.....	64	-	3	-	-	-	-	2	3	-	21
Mississippi.....	-	-	3	-	1	-	5	-	1	-	1
WEST SOUTH CENTRAL...	404	1	17	3	31	2	19	-	14	8	378
Arkansas.....	7	-	4	1	6	-	4	-	1	1	44
Louisiana.....	7	1	6	1	6	-	3	-	-	-	34
Oklahoma.....	7	-	-	1	7	-	4	-	7	2	111
Texas.....	383	-	7	-	12	2	8	-	6	5	189
MOUNTAIN.....	772	-	-	-	6	2	11	1	3	2	54
Montana.....	7	-	-	-	-	-	-	-	-	-	-
Idaho.....	106	-	-	-	-	-	-	1	1	-	-
Wyoming.....	10	-	-	-	1	-	1	-	-	1	3
Colorado.....	510	-	-	-	3	-	2	-	2	-	3
New Mexico.....	114	-	-	-	-	-	6	-	-	1	21
Arizona.....	14	-	-	-	-	2	2	-	-	-	27
Utah.....	11	-	-	-	2	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	556	-	14	-	1	1	28	-	1	6	177
Washington.....	36	-	1	-	-	-	1	-	-	-	-
Oregon.....	49	-	1	-	1	1	4	-	-	-	3
California.....	324	-	12	-	-	-	23	-	1	6	174
Alaska.....	32	-	-	-	-	-	-	-	-	-	-
Hawaii.....	115	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	---	---	6	---	-	---	1	---	-	---	16

* Delayed reports: SST: Me. 9

Week No. 30

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JULY 27, 1968

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza	Under 1 year
	All Ages	65 years and over	All Ages	All Causes
NEW ENGLAND:	704	449	40	25
Boston, Mass.	221	130	16	12
Bridgeport, Conn.	47	31	9	3
Cambridge, Mass.	22	17	-	-
Fall River, Mass.	31	22	1	-
Hartford, Conn.	61	35	2	2
Lowell, Mass.	27	19	1	-
Lynn, Mass.	21	14	-	1
New Bedford, Mass.	17	13	1	-
New Haven, Conn.	33	21	-	-
Providence, R. I.	69	38	1	2
Somerville, Mass.	12	8	1	1
Springfield, Mass.	44	24	2	3
Waterbury, Conn.	42	31	-	1
Worcester, Mass.	57	46	6	-
MIDDLE ATLANTIC:	3,502	2,096	134	148
Albany, N. Y.	43	22	-	1
Allentown, Pa.	37	25	2	1
Buffalo, N. Y.	147	84	4	3
Camden, N. J.	54	35	6	2
Elizabeth, N. J.	37	24	-	2
Erie, Pa.	40	28	1	1
Jersey City, N. J.	81	61	6	4
Newark, N. J.	87	39	3	1
New York City, N. Y.	1,776	1,062	68	71
Paterson, N. J.	53	31	4	1
Philadelphia, Pa.	496	284	12	29
Pittsburgh, Pa.	206	112	2	8
Reading, Pa.	63	45	6	3
Rochester, N. Y.	110	73	7	6
Schenectady, N. Y.	34	24	1	1
Scranton, Pa.	31	18	1	-
Syracuse, N. Y.	83	55	2	7
Trenton, N. J.	54	27	5	3
Utica, N. Y.	34	23	2	3
Yonkers, N. Y.	36	24	2	1
EAST NORTH CENTRAL:	2,621	1,476	86	120
Akron, Ohio	61	31	-	1
Canton, Ohio	41	24	2	-
Chicago, Ill.	738	401	23	44
Cincinnati, Ohio	150	85	6	10
Cleveland, Ohio	200	99	2	6
Columbus, Ohio	133	74	2	6
Dayton, Ohio	68	33	3	3
Detroit, Mich.	374	215	3	9
Evansville, Ind.	45	26	3	2
Flint, Mich.	66	32	2	8
Fort Wayne, Ind.	55	29	5	3
Gary, Ind.	42	20	5	-
Grand Rapids, Mich.	66	47	6	1
Indianapolis, Ind.	133	67	6	11
Madison, Wis.	33	17	3	2
Milwaukee, Wis.	145	93	3	5
Peoria, Ill.	37	24	-	4
Rockford, Ill.	26	19	3	-
South Bend, Ind.	50	39	5	1
Toledo, Ohio	97	62	4	1
Youngstown, Ohio	61	39	-	3
WEST NORTH CENTRAL:	783	477	25	40
Des Moines, Iowa	48	35	2	1
Duluth, Minn.	14	6	3	2
Kansas City, Kans.	38	24	2	4
Kansas City, Mo.	122	79	2	7
Lincoln, Nebr.	23	11	5	-
Minneapolis, Minn.	120	69	2	8
Omaha, Nebr.	81	42	-	5
St. Louis, Mo.	221	140	4	8
St. Paul, Minn.	71	45	-	4
Wichita, Kans.	45	26	5	1

Area	All Causes		Pneumonia and Influenza	Under 1 year
	All Ages	65 years and over	All Ages	All Causes
SOUTH ATLANTIC:	1,165	584	37	46
Atlanta, Ga.	139	69	3	9
Baltimore, Md.	233	112	1	5
Charlotte, N. C.	49	23	1	4
Jacksonville, Fla.	67	40	6	4
Miami, Fla.	116	52	-	2
Norfolk, Va.	41	15	1	4
Richmond, Va.	69	44	2	3
Savannah, Ga.	40	19	1	2
St. Petersburg, Fla.	80	67	5	1
Tampa, Fla.	53	27	7	2
Washington, D. C.	215	89	5	9
Wilmington, Del.	63	27	5	1
EAST SOUTH CENTRAL:	686	365	18	42
Birmingham, Ala.	102	45	-	8
Chattanooga, Tenn.	69	39	3	2
Knoxville, Tenn.	29	14	1	-
Louisville, Ky.	149	72	6	19
Memphis, Tenn.	158	92	3	7
Mobile, Ala.	58	36	2	-
Montgomery, Ala.	38	20	2	4
Nashville, Tenn.	83	47	1	2
WEST SOUTH CENTRAL:	1,108	567	38	90
Austin, Tex.	46	26	5	3
Baton Rouge, La.	39	19	1	3
Corpus Christi, Tex.	36	22	-	4
Dallas, Tex.	147	75	3	8
El Paso, Tex.	56	32	1	5
Fort Worth, Tex.	72	34	2	9
Houston, Tex.	202	84	5	18
Little Rock, Ark.	55	28	2	4
New Orleans, La.	140	77	5	10
Oklahoma City, Okla.	80	42	1	4
San Antonio, Tex.	118	62	4	12
Shreveport, La.	37	21	3	3
Tulsa, Okla.	80	45	6	7
MOUNTAIN:	425	234	17	19
Albuquerque, N. Mex.	57	27	3	2
Colorado Springs, Colo.	33	20	1	-
Denver, Colo.	116	67	8	5
Ogden, Utah	20	14	2	1
Phoenix, Ariz.	79	38	1	6
Pueblo, Colo.	21	12	1	-
Salt Lake City, Utah	47	32	-	2
Tucson, Ariz.	52	24	1	3
PACIFIC:	1,631	945	31	63
Berkeley, Calif.	21	15	-	1
Fresno, Calif.	43	28	-	3
Glendale, Calif.	34	21	-	-
Honolulu, Hawaii	61	32	1	2
Long Beach, Calif.	110	65	1	2
Los Angeles, Calif.	512	294	15	26
Oakland, Calif.	96	56	2	4
Pasadena, Calif.	32	23	1	-
Portland, Oreg.	135	77	1	5
Sacramento, Calif.	62	36	2	-
San Diego, Calif.	89	47	-	3
San Francisco, Calif.	166	92	1	4
San Jose, Calif.	40	25	1	-
Seattle, Wash.	136	74	4	7
Spokane, Wash.	42	28	1	1
Tacoma, Wash.	52	32	1	3
Total	12,625	7,193	426	593

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	389,319
All Causes, Age 65 and over	225,936
Pneumonia and Influenza, All Ages	16,506
All Causes, Under 1 Year of Age	17,989

CASE OF POLIOMYELITIS – *(Continued from page 279)*

a trailer camp in Belton, Missouri. The family from California, after leaving Clinton, visited families in Leavenworth, Kansas, in Shawnee, Kansas, and in Raytown, Missouri. All families were contacted, all had been immunized against poliomyelitis, and no person reported a recent illness. The source of the boy's infection has not yet been determined.

(Reported by J. M. Singleton III, M.D., Health Officer, Jackson County, Missouri; Edwin O. Wicks, M.D., Kansas City Health Department, Kansas City, Missouri; E. A. Belden, Director, Bureau of Communicable Disease, Missouri Department of Public Health and Welfare; Philip K. Condit, M.D., M.P.H., Chief, Bureau of Communicable Diseases, California State Department of Public Health; Ecological Investigations Program, NCDC, Kansas City, Kansas; and an EIS Officer.)

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MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY. COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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